

Fungi of Pakistan—III.

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29. *Fusicoccum Asparagi* Ahmad sp. nov.

Stromata innato-erumpentia, spurie locellata, 1 mm. longa 150 μ alta; conidiophora hyalina, simplicia, 15–20 $\Rightarrow$ 2–2.5 μ ; conidia hyalina, continua, fusoidea, 2.5 $\Rightarrow$ 6.5–8.3 μ .

Stroma innato-erumpent, loculate, locules opening by separate ostioles, 1 mm. long and 150 μ high; wall parenchymatous, of 4 or five layers of cells in thickness; conidiophores hyaline, simple, 15–20 $\Rightarrow$ 2–2.5 μ ; conidia hyaline, 1-celled, fusiform, 2.5 $\Rightarrow$ 6.5–8.3 μ .

On dead branches of *Asparagus* sp., Bot. Gard. Lahore, May 17, 1948, leg. S. Ahmad No. 2325, type.

30. *Fusicoccum Euphorbiae* Ahmad sp. nov.

Stromata innato-erumpentia, atra, 225–300 $\Rightarrow$ 120–150 μ ; irregularia 2–3-locellata; pariete parenchymatico, 8.8–10 μ crasso; conidiophora simplicia, hyalina, 20 $\Rightarrow$ 1.5 μ ; conidia hyalina, unicellularia, fusoidea, 2–2.5 $\times$ 8–9 μ .

Stroma innato-erumpent, black 225–300 $\Rightarrow$ 120–150 μ , irregularly loculate, loculi 2–3; opening by a common pore; wall parenchymatous, 8.3–10 μ ; conidiophores simple, hyaline, 20 $\Rightarrow$ 1.5 μ ; conidia hyaline, 1-celled, fusiform 2–2.5 $\Rightarrow$ 8.9 μ .

On dead branches of *Euphorbia pulcherrima* Willd. — (*Poinsettia pulcherrima* R. Garh.) Bot. Lahore, April 1, 1948, leg. S. Ahmad, no. 2287, type.

31. *Fusicoccum lahoreanum* Ahmad sp. nov.

Stromata innato-erumpentia, atra 450 $\Rightarrow$ 825 μ , irregulariter locularia, loculis poro communi apertis; conidiophora hyalina, simplicia, 15.5 $\Rightarrow$ 2.3–3.2 μ ; conidia hyalina continua, fusoidea, 8.3–12 $\Rightarrow$ 2.3–3.5 μ .

Stroma inate-erumpent, black 450 $\times$ 825 μ , irregularly loculate loculi several opening by a common pore; conidiophores hyaline, simple, 15.5 $\Rightarrow$ 2.3–3.2 μ ; conidia hyaline, 1 celled, fusoid, 2.3–3.5 $\Rightarrow$ 8.3–12 μ .

On dead branches of *Thevetia nerifolia*, Lahore, April 7, 1948, leg. S. Ahmad, no. 2285, type.

32. *Cytosporella corticola* Ahmad sp. nov.

Pycnidia solitaria vel caespitoso-aggregata, tunc confluentia et stromata genuina, innato-erumpentia, 2—3-locularia, 150—270 μ lata, 240—375 μ longa formantia; ostiola valde prominula, papillata; pariete plectenchymatico, usque 15.5 μ crasso; conidiophora hyalina, simplicia 9.5 $\Rightarrow$ 2.5 μ ; conidia ovoidea, hyalina, continua, 3—3.5 $\Rightarrow$ 1—1.5 μ .

Pycnidia occurring singly, in groups or actually forming a stromata, innate-erumpent, 2—3 loculate, 150—270 $\times$ 240—375 μ ; arising at different depths in the host tissue; ostiole very prominent, papillate; wall formed of interwoven hyphae, upto 15.5 μ thick; conidiophores hyaline, simple, 2.5 $\times$ 9.5 μ ; conidia 1 celled, hyaline, oval, 3—3.5 $\times$ 1—1.5 μ .

On the bark of *Cordia obliqua* Willd., Ladhar, Sheikhpura, July 16, 1947, leg. S. Ahmad, no. 1921, type.

33. *Cytosporella lignicola* Ahmad sp. nov.

Stromata innato-erumpentia, atra, 3—5-locularia, loculis irregularibus, poro minuto apertis, 375—600 $\Rightarrow$ 120—150 μ ; pariete parenchymatico, flavo-brunneo, 8.5—12.5 μ crasso; conidiophora simplicia, hyalina; pseudophysoides numerosae, filiformes; conidia hyalina, continua, ovoidea, 3.3—4.2 $\Rightarrow$ 1—1.5 μ .

Stroma innate-erumpent, black, 3—5 loculate, loculi irregularly formed, opening on the surface by a minute pore, 120—150 $\Rightarrow$ 375—600 μ ; wall parenchymatous, yellowish brown, 8.5—12.5 μ thick; conidiophores simple, hyaline, with numerous filiform pseudophysoides; conidia hyaline, 1 celled, oval, 1—1.5 $\Rightarrow$ 3.3—4.2 μ .

On dead wood of *Acacia arabica*, Ladhar, Sheikhpura, July 16, 1947, leg. S. Ahmad, no. 1922, type.

34. *Dendrophoma punicina* Sacc.

On dead branches of *Punica Granatum*. Ladhar, Sheikhpura, July 8, 1947, leg. S. Ahmad, no. 1952.

35. *Dothiorella graminicola* Ahmad sp. nov.

Stromata innato-erumpentia, atra, usque 1.5 $\Rightarrow$ 0.45 mm., plurilocularia, loculis $\pm$ ovoideis 40—50 $\Rightarrow$ 22.5—30 μ ; pariete parenchymatico, obscure brunneo 7.5—15 μ crasso; conidiophora simplicia, hyalina; conidia oblongo-fusoidea, continua, hyalina, 20—24.5 $\Rightarrow$ 5—7 μ .

Stroma innate-erumpent, black, upto 1.5 $\times$ 0.45 mm., loculi numerous, more or less oval, 22.5—30 $\Rightarrow$ 40—50 μ ; wall parenchymatous, dark brown, 7.5—15 μ thick; conidiophores simple, hyaline; conidia fusoid-oblong, 1-celled, hyaline, 20—24.5 $\Rightarrow$ 5—7 μ .

On dead runners of *Cynodon dactylon* Pers., Ladhar, Sheikhpura June 29, 1947, leg. S. Ahmad no. 1848, type; on dead clumps of *Saccharum munja* Roxb., Ladhar, Sheikhpura, Sep. 15, 1947, leg.

S. Ahmad, no. 2113; on dead culms of *Panicum antidotale* Retz., Ladhar, Sheikhpura, July 28, 1947, leg. S. Ahmad, no. 2007; on dead culms of *Dicanthium annulatum*, Ladhar, Sheikhpura, July 29, 1947, leg. S. Ahmad, no. 2036; on dead culms of *Cenchrus biflorus*, Ladhar, Sheikhpura, Aug. 6, 1947, leg. S. Ahmad, no. 2029.

36. **Dothiorella ficina** Ahmad sp. nov.

Stromata pulvinata, innato-erumpentia 0.75—0.3 mm, atra, 3—5-locularia, loculis subglobosis 238 μ longa, 166.5 μ lata, pariete obscure brunneo parenchymatico, 12.6—15.8 μ crasso; conidiophora simplicia, hyalina; conidia hyalina, continua, oblongo-fusoidea, 22.5—25.6 μ 4—5 μ .

Stroma pulvinate, innato-erumpent, 0.3—0.75 mm., black, loculi (3—5) subglobose, 166.5 μ in size; wall dark brown, parenchymatous, 12.6—15.8 μ thick; conidiophores simple, hyaline; conidia hyaline, 1-celled, fusoid-oblong, 4—5 μ 22.5—25.6 μ .

On dead wood of *Ficus palmata*, Ladhar, Sheikhpura, July 14, 1947, leg. S. Ahmad, no. 1913, type.

37. **Dothiorella Lagerstroemiae** Ahmad sp. nov.

Stromata innato-erumpentia, atra 0.5—2 mm. diam., 150—330 μ alta, plurilocularia, subglobosa, ovoidea vel irregularia usque 120—330 μ diam.; pariete parenchymatico, obscure brunneo, 10—25 μ crasso; conidiophora simplicia, hyalina, 18.5 μ 2 μ ; conidia ellipsoidea, hyalina, continua, 8.3—10 μ 3.5—4 μ .

Stroma innato-erumpent, black, 0.5—2 mm. wide and 150—330 μ high, loculi numerous, sometimes in superposed layers, sub globose, oval or irregular, upto 120—330 μ in diam.; wall parenchymatous, dark-brown, 10—25 μ in thickness; conidiophores simple, hyaline, 18.5 μ 2 μ ; Conidia elliptic, hyaline, 1-celled 3.5—4 μ 8.3—10 μ .

On the bark of *Lagerstroemia alba*. Lahore, March 24, 1948, leg. S. Ahmad, no. 2269, type.

38. **Colletotrichum lebbek** Syd.

On fallen pods of *Albizzia lebbek*, Ladhar, Sheikhpura, Sep. 27, 1947, no. 2196.

39. **Diplodina Panici** Ahmad sp. nov.

Pycnidia solitaria vel gregaria, innata, poro minuto aperta, globosa vel subglobosa, 100—185 μ 77.5—100 μ ; pariete parenchymatico, obscure brunneo e stratis 3—4 cellularum 6.5—8.5 μ diam. metientium composito; conidiophora simplicia, hyalina 7.5—9.5 μ 1.6 μ ; conidia hyalina, 1-septata, ellipsoidea, 6.4—8—9.5 μ 3.2—4 μ .

Pycnidia solitary or gregarious, innate, opening on the surface by a minute opening becoming free at maturity, globose or subglobose, 77.5—100 μ 100—185 μ ; wall parenchymatous, of 3 or 4 layers of dark brown cells, 6.5—8.5 μ thick; conidiophores simple,

hyaline, $1.6 \approx 7.5-9.5 \mu$; conidia hyaline 2-celled elliptical, $3.2-4 \approx 6.4-8$ (-9.5μ).

On dead culms of *Panicum antidotale* Retz., Ladhar, Sheikhupura July 11, 1947, leg. S. Ahmad, no. 1884, type.

40. **Diplodiella Milleri** Ahmad sp. nov.

Pycnidia superficialia, gregaria, globosa, atra, membranacea, $0.5-1$ mm diam.; pariete fragili, in apice longitudinaliter disrum-pente; conidia oblonga vel ellipsoidea, recta vel parum curvula, 1-septata, circa medium $\pm$ vel vix constricta, obscure brunnea $9-10.8 \approx 5.46 \mu$.

Pycnidia superficial, gregarious, globose, black, membranous, $0.5-1$ mm in diameter; wall fragile at length rupturing at the top; conidia oblong or ellipsoid, straight or slightly curved, 1-septate, constricted at the middle or not, dark-brown, $5.4-6 \approx 9-18 \mu$.

On stones of *Zizyphus jujuba* Lamk., Ladhar, Sheikhupura, Sep. 14, 1947, leg. S. Ahmad, no. 2177, type.

41. **Camarosporium Capparidis** Ahmad sp. nov.

Pycnidia solitaria vel gregaria, erumpentia, atra, globosa, ostiolo papilliformi perforato praedita, $85-100 \mu$ diam.; pariete parenchymatico, flavido, $7.5-10 \mu$ crasso; conidiophora obsoleta; conidia subglobosa vel ovoidea, 1-2-septata vel saepe cruciatim divisa, flavo-brunnea vel obscure brunnea $12-13.5 \approx 8.5-9 \mu$.

Pycnidia solitary or gregarious, erumpent, black, globose, ostiole papillate at length distinctly perforate, $85-100 \mu$ in diameter; wall parenchymatous, of 2 or 3 layers of pale yellowish cells, $7.5-10 \mu$ thick; conidiophores obsolete; conidia sub-globose or oval 1 or 2 septate or frequently cruciately divided, variously muriform, yellowish brown or dark brown, $8.5-9.5 \approx 12-13.5 \mu$.

On dead branches of *Capparis aphylla*, Ladhar, Sheikhupura, July 18, 1947, leg. S. Ahmad, no. 1935, type.

This species is easily distinguished from *Camarosporium Sus-ganense* Sacc. et Speg. described on *Capparis rupestris* in growing on branches and in having larger conidia, It was listed by Mundkur and Ahmad (1946) as *C. quaternatum*.

42. **Coniosporium Arundinis** (Corda) Sacc.

On leaves of *Arundo donax*. Lahore, Feb. 10, 1911, leg. B. Das; on dead culms of *Bambusa* sp., Bot. Gard. Lahore, March 21, 1948, leg. S. Ahmad, no. 2326.

43. **Coniothyrium Withaniae** Ahmad sp. nov.

Pycnidia solitaria, innato-erumpentia, ostiolo perforato praedita, atra, globosa vel subglobosa $160-190 \mu$ diam.; pariete parenchymatico, e stratis 3-4 cellularum $6.5-7.5 \mu$ diam. metientium composito; conidiophora simplicia, hyalina; conidia globosa, subglobosa vel late ovoidea, continua, obscure brunnea, $9.5-14.6 \mu$ diam.

Pycnida solitary, innate-erumpent, ostiole distinctly perforate, black, globose, sub-globose 160—190 μ in diameter; wall parenchymatous, of 3 or 4 layers of cells, 6.5—7.5 μ thick; conidiophores simple, hyaline; conidia globose, sub-globose or oval, 1-celled, dark brown, 9.5—14.6 μ .

On dead branches of *Withania somnifera* Dunal, Ladhar, Sheikhupura, July 16, 1947, leg. S. Ahmad, no. 1917, type.

44. *Diplodia mori* West.

On dead branches of *Morus alba* L., Ladhar, Sheikhupura, Sep. 14, 1947, leg. S. Ahmad, no. 2079.

45. *Diplodia aurantii* Catt.

On dead branches of *Citrus aurantium* L., Ladhar, Sheikhupura, July 9, 1947, leg. S. Ahmad, no. 1871.

46. *Diplodia viticola* Desm.

On dead branches of *Vitis* sp., Ladhar, Sheikhupura, July 14, 1947, leg. S. Ahmad, no. 1899.

47. *Diplodia Agaves* Niessl.

On leaves of *Agave americana*, Lahore, March 21, 1948, leg. S. Ahmad.

48. *Diplodia Rosarum* Fr.

On dead branches of *Rosa* sp., Ladhar, Sheikhupura, July 9, 1947, leg. S. Ahmad, no. 1868.

49. *Diplodia asclepiadea* C. & Ell.

On dead branches of *Calotropis*, Ladhar, Sheikhupura, Sep. 15, 1947, no. 2138.

50. *Diplodia sicula* Scalia.

On dead petioles of *Phoenix dactylifera* L., Ladhar, Sheikhupura, July 3, 1947, leg. S. Ahmad, no. 1849.

51. ***Diplodia bombacina*** Ahmad sp. nov.

Pycnidia innato-erumpentia, globosa vel subglobosa, 120—136 μ diam.; pariete parenchymatico, obscure brunneo, 13.5—16.5 μ crasso; conidia continua vel 1-septata, ovoidea, obscure brunnea, 15.5—17.5 μ 8.5—10.5 μ .

Pycnidia foliicolous, innate-erumpent, globose or subglobose 120—136 μ in diameter; wall parenchymatous, dark-brown, 13.5—16.5 μ thick; conidia 1 or 2 celled, oval, dark-brown, 8.5—10.5 μ 15.5—17.5 μ .

On living leaves of *Bombax malabaricum*, Lahore, Jan. 27, 1948, leg. S. Ahmad, no. 2238, type.

The fungus is confined to dead areas on living leaves and it is doubtful if it is a true parasite.

52. *Diplodia Dalbergiae* Died.

On dead branches of *Dalbergia sissoo*, Ladhar, Sheikhupura, Sep. 12, 1947, leg. S. Ahmad, nos. 2063 and 2150, July 15, 1947, no. 1915.

53. *Diplodia albo-zonata* Dur. & Mont.

On dead branches of *Zizyphus jujuba*, Ladhar, Sheikhpura, July 18, 1947, no. 1863, July 19, 1946, no. 1869, July 24, 1947, no. 1898.

54. *Diplodia salvadorina* Ahmad sp. nov.

Pycnidia innato-erumpentia, globosa vel subglobosa, atra, 138.5—150 μ diam.; pariete parenchymatico 6.5—10 μ crasso; conidia 1-septata, obscure brunnea, ovoidea, 14.6—21.5 $\Rightarrow$ 8.6—10 μ .

Pycnidia innate-erumpent, globose or sub-globose, black, 138.5—150 μ in diameter; wall parenchymatous, 6.5—10 μ thick; conidia 2-celled, dark brown, oval, 14.6—21.5 $\Rightarrow$ 8.6—10 μ .

On dead branches of *Salvadora oleoides*, Ladhar, Sheikhpura, July 8, 1947, leg. S. Ahmad, no. 1863, type.

55. *Diplodia Withaniae* Ahmad sp. nov.

Pycnidia innato-erumpentia, globosa vel subglobosa, 130.6—140.8 μ diam., atra; pariete parenchymatico, obscure brunneo, 9.5 μ crasso; conidia 1-septata, obscure brunnea, ovoidea, 16.6—22.5 $\Rightarrow$ 9—11.5 μ .

Pycnidia innate-erumpent, globose or sub-globose, 130.6—140.8 μ in diameter, black; wall parenchymatous, dark brown, 9.5 μ thick, conidia 2-celled, dark brown, oval, 9—11.5 $\Rightarrow$ 16.6—22.5 μ .

On dead branches of *Withania somnifera*, Ladhar, Sheikhpura, July 11, 1947, leg. S. Ahmad, no. 1887, type.

56. *Botryodiplodia gossypina* Ell. et Barth.

On dead branches of *Gossypium* sp., Ladhar, Sheikhpura, Sep. 21, 1947, leg. S. Ahmad no. 2193.

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